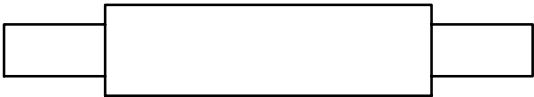
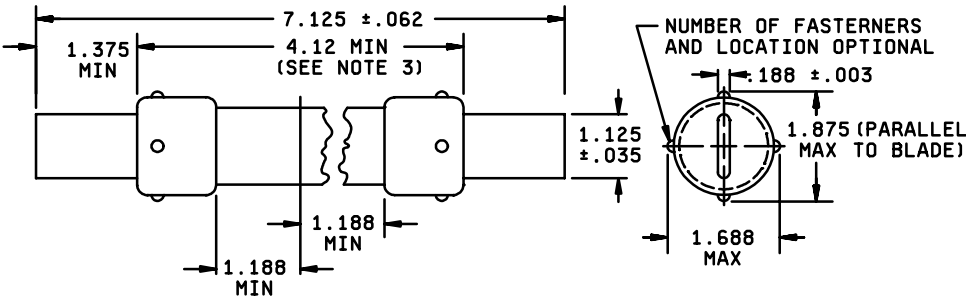


PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE
(NONINDICATING), STYLE F64

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification and MIL-PRF-15160.



| Inches | mm |
|--------|--------|
| .003 | 0.08 |
| .035 | 0.89 |
| .062 | 1.57 |
| .188 | 4.78 |
| .125 | 28.58 |
| 1.188 | 30.20 |
| 1.375 | 34.93 |
| 1.688 | 42.88 |
| 1.875 | 47.63 |
| 4.12 | 104.6 |
| 7.125 | 180.98 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The length of the cylindrical body may be less than the indicated value if other acceptable interference means (pins through blades, collars, and so forth) are provided to prevent mounting the fuse in a fuseholder that will accommodate a fuse rated in the next lower bracket of current ratings.

FIGURE 1. Style F64, characteristic C.

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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Case: Glass melamine.

Knifeblade: Brass, copper, bronze, or copper alloy.

Finish: Nickel or bright alloy plate, silver plated when specified.

Terminal strength: Method 211 of MIL-STD-202, test condition E, 5 pound-inch torque.

Electrical:

Current rating: See table I.

Current carrying capacity: 110 percent of rated current.

Voltage rating: See table I.

Characteristic: Characteristic C only.

Overload interrupt: Within 2 hour at 135 percent of rated current; and within 8 minutes at 200 percent.

Short circuit interrupt: 200,000 A at 500 V ac (symmetrical), 150,000 A at 500 V dc.

Shock: Method 207 of MIL-STD-202, HI shock.

Vibration: Method 204 of MIL-STD-202, test condition A (except 5g, 500 Hz).

Type designation: Type designation shall be as specified in table I.

TABLE I. Type designation. 1/

| Style | Characteristic | Voltage | Current |
|-------|----------------|---------|---------|
| F64 | C | 500V | 110A |
| F64 | C | 500V | 125A |
| F64 | C | 500V | 150A |
| F64 | C | 500V | 175A |
| F64 | C | 500V | 200A |

1/ For silver plated terminals, the designator "S" is added after the current rating.

Temperature rise: Temperature rise shall be not greater than the values shown in table II.

TABLE II. Allowable temperature rise.

| Casing or body | | Terminal | |
|----------------|--------------|-------------|--------------|
| Thermometer | Thermocouple | Thermometer | Thermocouple |
| 50°C | 90°C | 60°C | 90°C |

VERIFICATION:

Qualification inspections: The number of qualification samples required shall be:

- a. 24 samples maximum current rating of each voltage and design.
- b. 24 samples minimum current rating of each voltage and design.

NOTE: If labels are used, five additional samples of any rating are required.

Sample size: The number of group III samples shall be twelve samples each of the maximum and minimum current ratings. The samples shall be divided as shown in table III.

TABLE III. Short circuit test.

| Number of samples | Short circuit current | Test voltage |
|-------------------|-----------------------|--------------------|
| 3 | 5,000 A | 500 V ac <u>1/</u> |
| 3 | 200,000 A | 500 V ac <u>1/</u> |
| 3 | 5,000 A | 500 V dc |
| 3 | 150,000 A | 500 V dc |

1/ A 600 volt ac test voltage may be used.

Group C inspection: Group C inspection shall be performed on short circuit current ratings of 5,000 A at 500 V ac; 200,000 A at 500 V ac; and 5,000 A at 500 V dc. The 150,000 A at 500V dc short circuit current test is not required to be performed for group C testing.

INSPECTION ROUTINE:

AC short circuit test: AC short circuit tests shall be performed at the currents shown in table II at not less than 500 volts, single phase, and not greater than 20 percent power factor, lagging. The current shall be applied within plus or minus 10 degrees of the zero point of the voltage wave.

DC short circuit test: DC short circuit tests shall be performed at the currents shown in table II at not less than 500 volts. The rate of rise shall be between 25,000,000 and 30,000,000 amperes per second.

Cross-reference: For applicable cross-reference see table IV. The existing stocks of superseded items may be used. When exhausted, the superseding parts shall be used.

TABLE IV. Cross-reference.

| Superseding number | Superseded numbers for CAGE | |
|--------------------|-----------------------------|-----------|
| | 81349 | 96906 |
| F64C500V110A | F64H110R0C | MS15253-1 |
| F64C500V125A | F64H125R0C | MS15253-2 |
| F64C500V150A | F64H150R0C | MS15253-3 |
| F64C500V175A | F64H175R0C | MS15253-4 |
| F64C500V200A | F64H200R0C | MS15253-5 |

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Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR
Navy - SH
Air Force - 85

Preparing activity:

DLA - CC

(Project 5920-0515-05)

Review activities:

Army - AR, AT, CR4, MI
Navy - AS, CG, MC, OS, YD1
Air Force - 17, 19, 99